

Table S1. *Trichonephila clavipes* sample information.

ID	Species	Common name	Sex	Location	Tissue subsections	Extraction	Application
Nep-021	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Cephalothorax (no venom), venom glands, pedipalps and legs, major ampullate glands, minor ampullate glands, all other silk glands attached to spinnerets	Trizol, RNeasy	6 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-022	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Cephalothorax (no venom), venom glands, pedipalps and legs, all silk glands attached to spinnerets	Trizol, RNeasy	4 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-023	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Cephalothorax (no venom), venom glands, pedipalps and legs, major ampullate glands, minor ampullate glands, all other silk glands attached to spinnerets	Trizol, RNeasy	6 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-024	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Cephalothorax (no venom), venom glands, pedipalps and legs, all silk glands attached to spinnerets	Trizol, RNeasy	4 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-025	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	F	Charleston County, South Carolina, USA	Legs (two extracts), anterior cephalothorax (no pedipalps, chelicerae, or fangs), posterior cephalothorax, anterior abdomen, posterior abdomen, pedipalps, chelicerae	Trizol, RNeasy	8 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-026	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	F	Charleston County, South Carolina, USA	Legs (two extracts), anterior cephalothorax (no pedipalps, chelicerae, or fangs), posterior cephalothorax, anterior abdomen, posterior abdomen, pedipalps, chelicerae	Trizol, RNeasy	8 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-027	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	F	Charleston County, South Carolina, USA	Legs (two extracts), anterior cephalothorax (no pedipalps, chelicerae, or fangs), posterior cephalothorax, anterior abdomen, posterior abdomen, pedipalps, chelicerae	Trizol, RNeasy	8 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-028	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Pedipalps, legs, cephalothorax , abdomen	Trizol, RNeasy	4 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-029	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Pedipalps, legs, cephalothorax , abdomen	Trizol, RNeasy	4 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses
Nep-030	<i>Trichonephila clavipes</i> ^a	Golden (silk) orb weaver spider	M	Charleston County, South Carolina, USA	Pedipalps, legs, cephalothorax , abdomen	Trizol, RNeasy	4 tissue-specific RNA extractions, cDNA production, and qPCR expression analyses

^a = No special CITES status. Classified as “Least Concern” by IUCN.